

DERWENT-ACC-NO: 1997-448425

DERWENT-WEEK: 200055

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TITLE: Polymerisable monomer type tissue adhesive for wound closure - contains cyanoacrylate, plasticising agent, and acidic stabiliser, and forms flexible and strong bond in or bridging wound site

INVENTOR: CLARK, J G; LEUNG, J C

PATENT-ASSIGNEE: CLOSURE MEDICAL CORP[CLOSN]

PRIORITY-DATA: 1996US-0609921 (February 29, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 9807029 A1	February 1, 1999	N/A	000	A61F 013/00
WO 9731598 A1	September 4, 1997	E	035	A61F 013/00
AU 9719814 A	September 16, 1997	N/A	000	A61F 013/00
EP 886507 A1	December 30, 1998	E	000	A61F 013/00
CN 1213285 A	April 7, 1999	N/A	000	A61F 013/00
BR 9707794 A	July 27, 1999	N/A	000	A61F 013/00
US 5981621 A	November 9, 1999	N/A	000	A61L 025/00
JP 2000503574	March 28, 2000	N/A	038	A61L 024/00
W	September 28, 2000	N/A	000	A61F 013/00

AU 724710 B

DESIGNATED-STATES: AU BR CA CN JP MX AT BE CH DE DK ES FI FR GB GR IE IT LU MC N

L PT SE AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

CITED-DOCUMENTS: US 3223083; US 4125494 ; US 4980086 ; US 5259835 ; US 5480935

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
MX 9807029A1	N/A	1998MX-0007029	August 28, 1998
WO 9731598A1	N/A	1997WO-US03154	February 28, 1997
AU 9719814A	N/A	1997AU-0019814	February 28, 1997
AU 9719814A	Based on	WO 9731598	N/A
EP 886507A1	N/A	1997EP-0907945	February 28, 1997
EP 886507A1	N/A	1997WO-US03154	February 28, 1997
EP 886507A1	Based on	WO 9731598	N/A
CN 1213285A	N/A	1997CN-0192705	February 28, 1997
BR 9707794A	N/A	1997BR-0007794	February 28, 1997
BR 9707794A	N/A	1997WO-US03154	February 28, 1997
BR 9707794A	Based on	WO 9731598	N/A
US 5981621A	N/A	1996US-0609921	February 29, 1996
JP2000503574W	N/A	1997JP-0531147	February 28, 1997
JP2000503574W	N/A	1997WO-US03154	February 28, 1997
JP2000503574W	Based on	WO 9731598	N/A
AU 724710B	N/A	1997AU-0019814	February 28, 1997

AU 724710B Previous Publ. AU 9719814 N/A
AU 724710B Based on WO 9731598 N/A
INT-CL (IPC): A61F013/00; A61L024/00 ; A61L025/00 ; C08F002/44 ;
C08F020/42 ; C08J005/12 ; C09J004/00 ; C09J007/00

ABSTRACTED-PUB-NO: US 5981621A

BASIC-ABSTRACT: A biocompatible monomer composition, comprises (a) a monomer(s), forming a medically acceptable polymer; (b) 0.5-16 wt.% of plasticiser(s); and (c) acidic stabilising agent(s) having a pK ionisation constant of 0-7.

USE - The composition is used for joining tissues, either incised surgically or lacerated traumatically, for wound closure. Excess composition is not wiped off, as with some prior art compositions, and a subsequent coating, which may contain the same or a different monomer, can be applied after the first coat has at least partly polymerised. Other biomedical applications are as sealants for retarding or preventing bleeding or for covering open wounds, setting fractured bone structures, and aiding repair and regrowth of living tissues.

ADVANTAGE - Adhesive closure of wounds is often more acceptable to a patient than suture or staple closure, particularly in children having fear of needles; also in geriatric cases in which the skin is weak and prone to tearing. The present composition is free from histotoxicity, or inadequate film strength or flexibility, and toxicity can be reduced by addition of a formaldehyde scavenger, e.g. bisulphite, preferably in microencapsulated form to avoid retarding the polymerisation.

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EQUIVALENT-ABSTRACTS: A biocompatible monomer composition, comprises (a) a monomer(s), forming a medically acceptable polymer; (b) 0.5-16 wt.% of plasticiser(s); and (c) acidic stabilising agent(s) having a pK ionisation constant of 0-7.

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CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: A14 A96 D22 E17 P32 P34

CPI-CODES: A04-D; A08-P01; A12-V03A; D09-C04B; E10-E04K; E10-G02G2;

DID:

WO 9731598 A1